



ILMT APIs : ILMT System As A Service

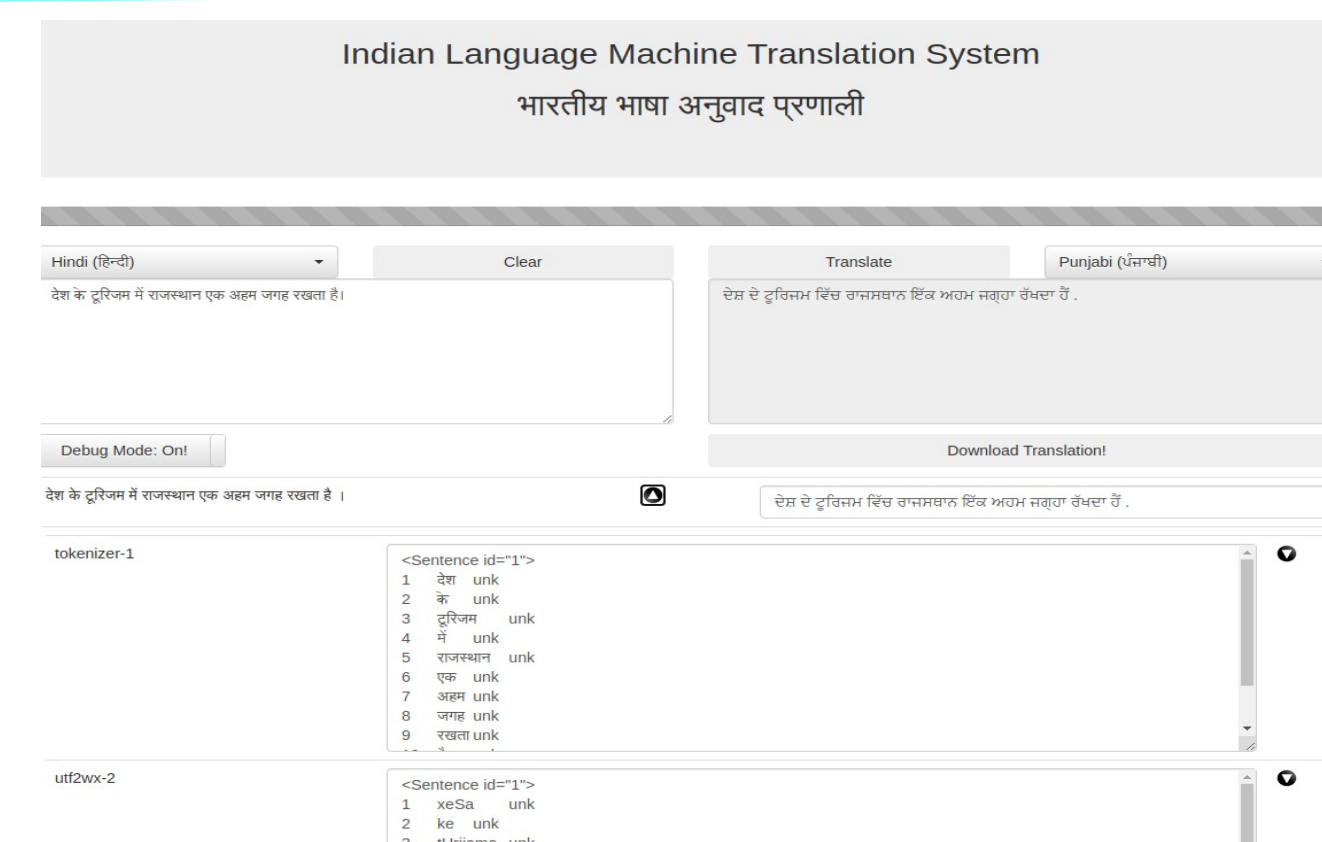
ILMT System

- Sampark MT system automatically translates from one Indian language to another.
- Hybrid system : Rule based as well as statistical methods are utilized
- Three subsystems:
 - Analysis
 - Transfer
 - Generation
- Pipeline Architecture

ILMT APIs

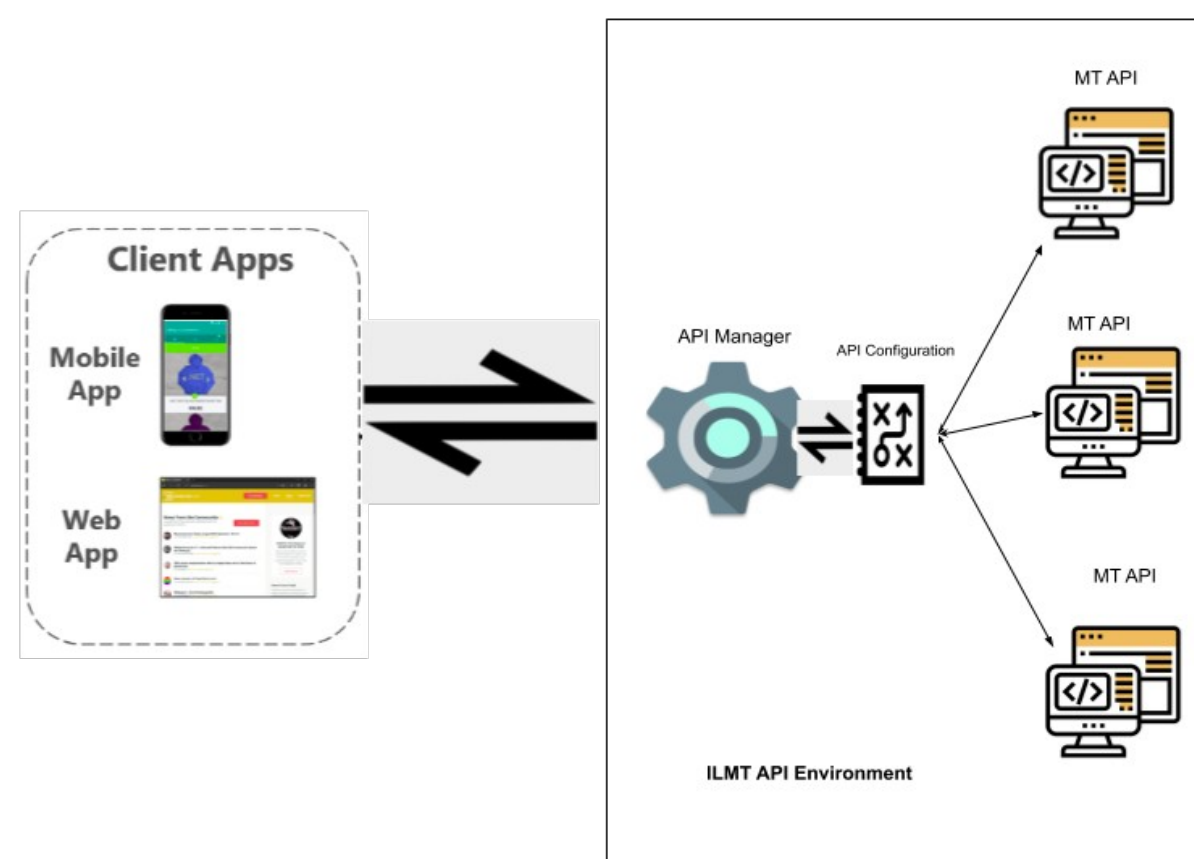
- Each of the modules as well as complete system into REST APIs (microservice)
- Complete system can be seen as a set of microservices
- Design and Development of ILMT-API manager which calls different ILMT MT engines' APIs through one endpoint
- Design of the basic UI to manage MT calls and modules' I/O

ILMT APIs: Current state



Re-engineering of ILMT system

- Existing ILMT system had bugs, dependencies mismatches, inconsistencies and discrepancies which made it hard to use/reuse.
- Requirement of Re-engineering to make system efficient as well as scalable.
- Re-engineering has been performed on ILMT systems to make them efficient and reusable.



- Out of 18 ILMT systems, 12 have been re-engineered completely.
- Validation and load testings have been performed
- Shallowpassers have been re-engineered too for six languages(Hindi, Punjabi, Urdu, Tamil, Telugu and Kannada)